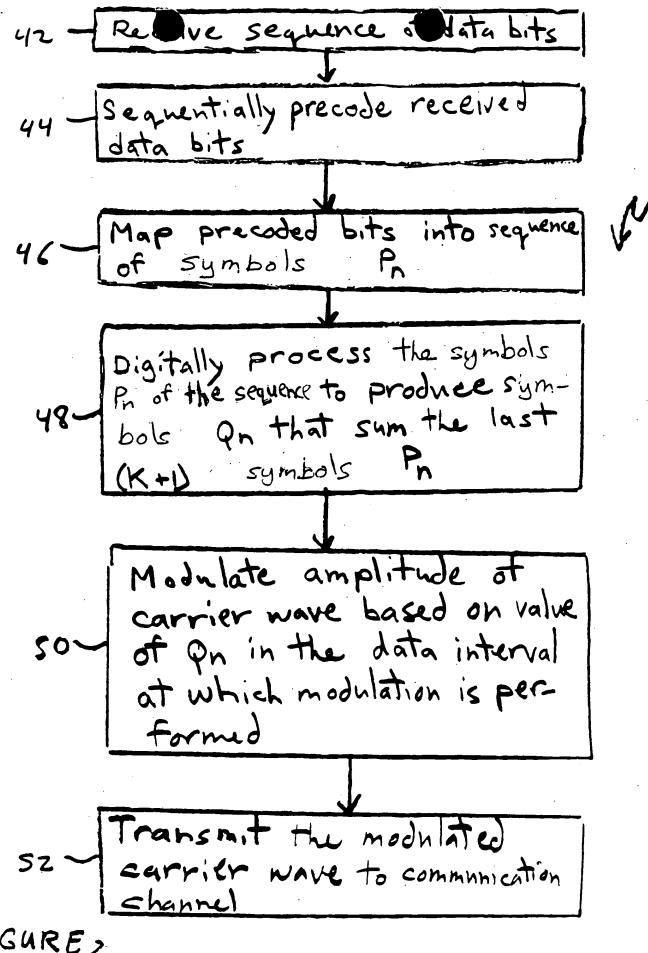
WEI-52

Figure 1



FIGUREZ

WEI-52

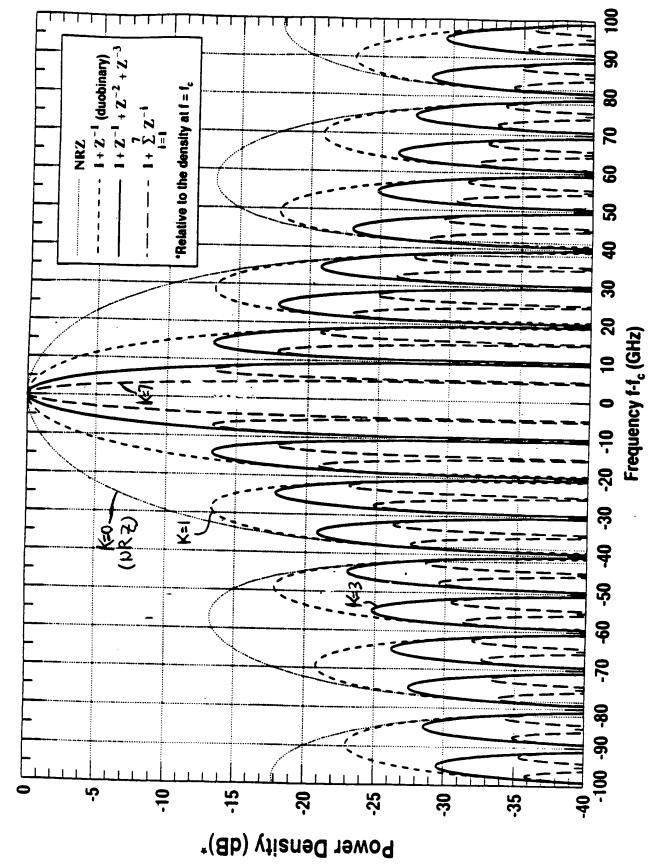


Figure 4

Filter received signal to select a carrier wave

Measure intensity of corrier wave

Estimate Value of transmitted intensity during a data period from the measured energy

Map estimated value of transmitted intensity to an extinuited intensity to a extinuited intensity to an extinuited inten

Map estimated value of transmitted intensity to an estimated value of the input data bit based on a constellation in which multiple intensity values correspond to one value of a transmitted data bit

78

70

Figure 5

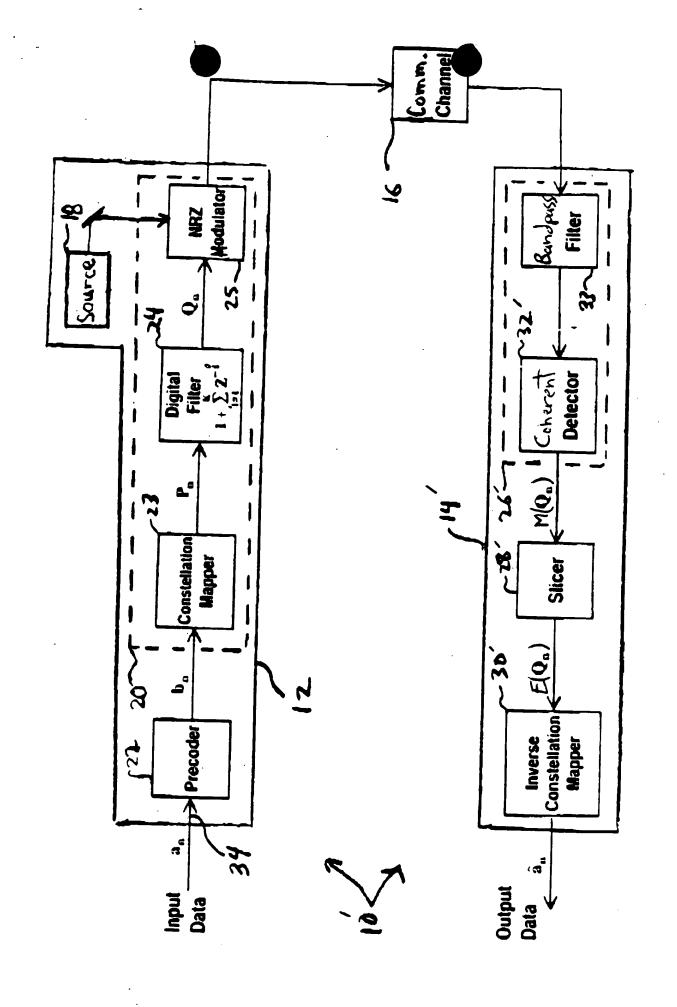


Figure 6

Filter received signal to select  a carrier wave  72
Measure amplitude and sign of carrier wave 741
Estimate On for original carrier wave during signaling interval from 76
the measured amplitude and sign
from the estimated value of the
symbol Pn estimate a value que 78
of associated input data bit an

70'

F16. 7

Figure &

<del></del>			<del></del> -			
Number of Receiver Signal Amplitudes Q <sup>2</sup>	2	က	4	တ	•••	တ
Number of Transmitter Signal Amplitudes Qn	က	2	<i>L</i> .	6	• • •	11
Loss in Receiver Sensitivity (dB)*	0	က	4.8	9	•••	6
Normalized Signal Bandwidth*	1 2	1 4	119	-1∞	•••	10
Digital Filter	$\frac{1+Z^{-1}}{(\text{duobinary})}$	$1+Z^{-1}+Z^{-2}+Z^{-3}$	$1+\sum_{i=1}^{5}Z^{-i}$	$1+\sum_{i=1}^{7}Z^{-i}$	•••	$\frac{15}{1+\sum_{i=1}^{15}Z^{-i}}$

\*Relative to a baseline on/off NRZ modulation.

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